

Mark K. Neely
May 7, 2001

California Regional Water Quality Control Board
North Coast Region

ORDER NO. R1-2001-##*
ID NO. 1B00163RSON

WASTE DISCHARGE REQUIREMENTS

FOR

CHATEAU FELICE WINERY
10603 CHALK HILL ROAD
HEALDSBURG, CALIFORNIA

Sonoma County

The California Regional Water Quality Control Board, North Coast Region (hereinafter Regional Water Board) finds that:

1. Chateau Felice Corporation (hereinafter discharger) submitted a Report of Waste Discharge dated July 24, 2000. The report describes the proposed industrial process wastewater treatment and disposal system for the winery. Supplemental information to complete filing of the application was submitted on September 11, 2000.
2. The discharger proposes to construct and operate a new wine production facility located at 10603 Chalk Hill Road, Healdsburg, within the Russian River drainage basin. The property is located at latitude N 38° 34' 46" and longitude W 122° 46' 28" within the Healdsburg quadrangle as shown on Attachment "A".
3. The discharger anticipates production to be 10,000 cases of wine per year. Industrial process wastewater will consist of wastewaters collected at floor drains and trenches within the winery and barrel room, and in exterior receiving, crush, tank and wash-down areas. The discharger anticipates process wastewater flows will average 400 gallons per day in a calendar month. During the grape crush, process wastewater flows will average 700 gallons per day and will peak at up to 1,830 gallons per day. No domestic wastewater will be discharged into the process wastewater system.
4. Wastewater will be initially screened by screened baskets and strainers, then will flow via a gravity collection system to a pump station, then transported to a rotating drum for solids removal. Flow will be measured by a magnetic flow meter, then the wastewater will flow to a constructed wetland system where primary biological treatment will take place. The wetland will be constructed

with a vinyl liner overlain with pea gravel and planted with a variety of hydrophilic plants. Wastewater will be applied by a distribution manifold across the entire width of the bed, and collected by another manifold for transport to an oxidation pond. The wetland will be bermed for a freeboard of two feet and will have a minimum retention time of 6.05 days. A partially aerated pond will provide final biological treatment to ensure discharges can meet the effluent limitations. Wastewater can be recirculated from the aerated pond to the wetland if further treatment is needed.

5. The discharger will drip irrigate 3.0 acres of surrounding fields and gardens with treated wastewater year round. To prevent runoff, no treated wastewater will be applied to the irrigation areas within two days of a forecasted rain event, during rainfall, 48 hours after a rainfall event or when soils are saturated. Irrigation/disposal operations will be routinely monitored to ensure against surface runoff and ponding.
6. Solid waste (pomace, stems, seeds, lees, etc.) from the wine making process will be incorporated back into the vineyard as a soil amendment, on land under the control of the discharger.
7. Domestic waste collection, treatment and disposal will utilize a new leachfield to be constructed under County permit.
8. The *Water Quality Control Plan for the North Coast Region* (Basin Plan) includes water quality objectives and receiving water limitations.
9. The beneficial uses of the Russian River and its tributaries include:
 - a. municipal and domestic supply
 - b. agricultural supply
 - c. industrial service supply
 - d. industrial process supply
 - e. groundwater recharge
 - f. navigation
 - g. hydropower generation
 - h. water contact recreation
 - i. non-contact water recreation
 - j. commercial and sport fishing
 - k. warm freshwater habitat
 - l. cold freshwater habitat
 - m. wildlife habitat
 - n. migration of aquatic organisms
 - o. spawning, reproduction, and/or early development of fish
 - p. estuarine habitat
 - q. aquaculture
10. Beneficial uses of areal groundwaters include:

- a. domestic water supply
 - b. agricultural water supply
 - c. industrial service supply
 - d. industrial process supply
11. A Negative Declaration was prepared and approved by the Sonoma County Board of Zoning Adjustments on November 17, 1999, for the new wine production facility, including the proposed wastewater collection, treatment and disposal system, in accordance with the requirements of the California Environmental Quality Act. The Regional Water Board has considered the Negative Declaration and has concluded that the project, as proposed with the mitigation measures incorporated as part of the project, will not result in significant impacts.
12. The Regional Water Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.
13. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.
14. The permitted discharge is consistent with the provisions of State Water Resources Control Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California." The impact on existing water quality will be insignificant.

THEREFORE, IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) and regulations adopted thereunder, shall comply with the following:

A. DISCHARGE PROHIBITIONS

1. The discharge of any waste not specifically regulated by this Order is prohibited.
2. Creation of a pollution, contamination, or nuisance, as these terms are defined in Section 13050 of the CWC, is prohibited.
3. The discharge of solid waste to land that is not under the control of the discharger is prohibited, except as authorized under **C. SOLIDS DISPOSAL**.
4. The discharge of untreated or partially treated waste from anywhere within the collection, treatment, or disposal facility is prohibited.
5. The discharge of waste to the Russian River, its tributaries, or any other surface waters is prohibited.

6. The discharge of domestic waste, treated, or untreated, to surface waters is prohibited.
7. The use of treated wastewater shall be restricted to designated vineyards, pastures, or landscape irrigation areas.
8. Treated wastewater shall not be applied to the irrigation areas within two days of a forecasted rain event, during rainfall, 48 hours after a rainfall event or when soils are saturated.
9. The ponds shall be operated and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
10. The ponds shall have sufficient capacity to accommodate wastewater flow, groundwater infiltration, and seasonal precipitation during the rainy season.

B. EFFLUENT LIMITATIONS

1. The discharge of treated wastewater to land by spray irrigation or for frost protection shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Monthly Average</u> ¹	<u>Daily Maximum</u>
BOD (20° C, 5-day) ²	mg/l	50	80
Settleable Solids	ml/l	0.2	1.0
Total Suspended Solids	mg/l	50	80

2. The discharge of treated wastewater to land by method of drip irrigation shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Maximum</u>
BOD (20° C, 5-day)	mg/l	160
Settleable Solids	mg/l	1.0
Total Suspended Solids	mg/l	80

3. The mean daily flow of wastewater shall not exceed 400 gallons per day averaged over a calendar month except as provided for in B.4.
4. The mean daily wastewater flow shall not exceed 700 gallons per day as averaged over the crush period³.

¹ The mean of all samples collected in a calendar month.

² Five-day, 20° Celsius Biochemical Oxygen Demand

³ The crush period is defined as the time of year during which the facility is processing the seasonal grape

5. The maximum daily wastewater flow shall not exceed 1830 gallons per day.
6. The pH in the facultative pond shall not fall below 6.0.
7. The discharger shall maintain at least 2 (two) feet of freeboard in the ponds and in the wetland.

C. SOLIDS DISPOSAL

1. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of at a legal point of disposal, and in accordance with the State Water Board promulgated provisions of Title 27, Division 2 of the California Code of Regulations or as waived pursuant to Section 13269 of the CWC.
2. Cultivated lands that receive solid wastes from the wine making process shall be managed to prevent ponding, runoff and erosion.
3. During wet weather conditions when solid wastes cannot be incorporated into the soil or hauled off-site for disposal, the solid wastes may be temporarily stored in a designated solids storage area out of the flood plain.
4. The discharge of leachate, from solids storage areas or rainfall runoff, which has come into contact with the solids being stored, to the Russian River or its tributaries, is prohibited.

D. WATER RECLAMATION REQUIREMENTS

1. Reclaimed wastewater shall be managed in conformance with Title 22, Division 4, Chapter 3 of the California Code of Regulations.
2. The use of treated wastewater that results in unreasonable use or waste of the treated wastewater is prohibited.
3. The use of treated wastewater that creates a condition of pollution or nuisance is prohibited.
4. The discharger shall be responsible to ensure that all users of treated wastewater comply with the terms and conditions of this Order.
5. Treated wastewater shall be applied in such a manner so as not to exceed vegetative demand or field capacity.

6. The application of treated wastewater shall be managed to prevent ponding, runoff, and erosion.
7. All piping, valves, and outlets shall be marked to differentiate treated wastewater from other sources of water.
8. There shall be no connection between a potable water supply and the treated wastewater distribution system.
9. There shall be no irrigation or impoundment of treated wastewater within 100 feet of any water well.
10. Adequate measures shall be taken to prevent the breeding of insects and other vectors of health significance.
11. Perimeter warning signs indicating use of non-potable water shall be posted at least every 500 feet with a minimum of a sign at each corner and access road.

E. GENERAL PROVISIONS

1. A copy of this Order shall be maintained at the discharge facility and be available at all times to operating personnel.

2. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

3. Operation and Maintenance

The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.

4. Change in Discharge

The discharger shall promptly report to the Regional Water Board any material change in the character, location, or volume of the discharge.

5. Change in Ownership

In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the following items by letter, a copy of which shall be forwarded to the Regional Water Board:

- a. existence of this Order, and
- b. the status of the dischargers' annual fee account

6. Vested Rights

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from his liability under federal, state, or local laws, nor create a vested right for the discharger to continue the waste discharge.

7. Monitoring

The discharger shall comply with the Contingency Planning and Notification Requirements Order No. 74-151 and the Monitoring and Reporting Program No. R1-2001-##* and any modifications to these documents as specified by the Regional Water Board Executive Officer (Executive Officer). Such documents are attached to this Order and incorporated herein. Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services.

8. Inspections

The discharger shall permit authorized staff of the Regional Water Board to:

- a. enter the premises in which an effluent source is located or in which any required records are kept;
- b. have access to and copy any records required to be kept under terms and conditions of this Order;
- c. inspect monitoring equipment or records; and
- d. sample any discharge.

9. Noncompliance

In the event the discharger is unable to comply with any of the conditions of this Order due to:

- a. breakdown of waste treatment equipment;
- b. accidents caused by human error or negligence; or
- c. other causes such as acts of nature;

the discharger shall notify the Executive Officer by telephone as soon as the discharger or its agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps being taken to prevent the problem from recurring.

10. Revision of Requirements

This Regional Water Board requires the discharger to file a report of waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge. The Regional Water Board will review this Order periodically and may revise requirements when necessary.

Certification

I, Lee A. Michlin, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on May 24, 2001.

Lee A. Michlin
Executive Officer

* Number will be issued when adopted

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